

Figure 1**CDRH2**

1.	50	GINPNNVGS <u>I</u> YNQKFRG	66	708
	254	NITVNNSGSYTCQAHNS	290	CEA
	288	NITVNNSGSYMCQAHNS	304	NCA

2.	50	GINPNNVGS <u>I</u> YNQKFRG	66	708
	610	KITPNNNGTYACFVSNL	626	CEA
	288	NITVNNSGSYMCQAHNS	304	NCA

3.	50	GINPNNVGS <u>I</u> YNQKFRG	66	708
	629	GRNNSIVKSITVSASGT	645	CEA

CDRH3

1	100	GYGN <u>Y</u> VAY	107	708
	30	GY <u>S</u> WYKGE	37	CEA
	59	GY <u>S</u> WYKGE	72	NCA

2.	100	GYGN <u>Y</u> VAY	107	708
	389	<u>S</u> YTYRPG	396	CEA
	242	<u>S</u> KANYRPG	255	NCA

3.	100	GYGN <u>Y</u> V <u>A</u> <u>Y</u>	107	708
	480	EDKDA <u>V</u> A <u>F</u>	487	CEA
	159	EDKDA <u>V</u> A <u>F</u>	165	NCA

Figure 2**CDRH2**

HLA-A3	NVGSIIYNQK	708
	IVKSITVSA	CEA

Pan DR	INPNNVGSI	708
	SIVKSITVSA	CEA

HLA-DR1	VGSIYNQKF	708
	SIVKSITVS	CEA

HLA-DR1	INPNNVGSI	708
	LATRNNNSI	CEA

HLA-DR7	VGSIYN	708
	IVKSITV	CEA

CDRH3

HLA-A3	CARGYGN ^Y V	708
	HLFGY ^S WYK	CEA
	NRFGY ^S WYK	NCA

Figure 3**A:**

1 10 20 30 40 50 60 70
EVQLQQSGPELVKPGASVKISCKTSGHTFTEYNMQWVKQSLGQSLEWIGGINPNNVGSINYQKFRGKATL
-----FR1-----CDR1-----FR2-----CDR2-----

71 80 90 100 110
TVDKSSSTAYMELRSLTSEDSAVYYCARGYGNVAYWGQGLTVTSA
-----FR3-----CDR3-----FR4-----

B:

1 10 20 30 40 50 60 70
DIVMTQSQKFMSTSVGDRVSVTCKASQNVNTNVAWYQQKPGQSPKSLIYSASYRYSQVDPDRFTGSGSGTD
-----FR1-----CDR 1-----FR2-----CDR 2-----

71 80 90 100
FTLTISNVQSEDLAEFFCQQYNRYPTFGGGTKLELK
-----FR3-----CDR 3-----FR4-----

Figure 4

EVQLQQSGPETGKPGASGKMSCKTSGHTSTEHNQWAKQSPGQSLEWIGGINPNNVGSI
YNQKFRGKATLTADKSSSTAHELMELRSPTSEDTAVYYCARGYGNVAYWGQGLTVTSA

Figure 5

EVQLQQSGPETGKPGASGKMSCKTSGHTSTEHNGOWAKQSPGQSLEWNGGRNNSIVKSI
TVSASGTKATLTADKSSSTAHMELRSPTSEDTAVYYCSPSYTYRPGWGQGTTLVTVSA

Figure 6

EVQLQQSGPETGKFGATISFSCNTGYKLFSGQWARQSPGQSLEWNGGRNNSIVKSI
TVSASGTKATLTADKSSSTAHMELRSPTSEDTAVYYCSPSYTYRPGWGQGTTLVTVSA

Figure 7

EVQLQQSGPTLVKPTQTLTLTCTLSGFSFGSTSMNRLRQSPGQSLEWNGGRNNSIVKSI
TVSASGTKATLTADKSSSTAHMELRSPTSEDTAVYYCSPSYTYRPGWGQGTTLVTVSA

Figure 8

DIQTTQSQKSQSTSAGDRASTTCKASQNVSTNAAWYQQTPGQSPKSLIYAASSLQSGVP
DRFTGSGSGTDFTQTTSNAQSEDSAEFFCQYNRYPHTFGGGTKLELK

Figure 9

DIQTTQSQKSQSTSAGDRASTTCTLLSVTRNDVAWYQQTPGQSPKSLIYAASSLQSGVP
DRFTGSGSGTDFTQTTSNAQSEDSAEFFCYLSGANLNLFGGGTKLELK

Figure 10:

1 KLTIESTPFN VAEGKEVLLL VHNLPQHLEF YSWYKGERVD GNRQIIIGYVI GTQQATPGPA
61 YSGREIIYPN ASLLIQNI IQ NDTGFYTLHV IKSDLVNEEA TGQFRVYPEL PKPSISSNNS
121 KPVEDKDAVA FTCEPETQDA TYLWWVNNQS LPVSPRLQLS NGNRTLTLFN VTRNDTASYK
181 CETQNPVSAR RSDSVILNVL YGPDAPTISP LNTSYRSGEN LNLSCHAASN PPAQYSWEVN
241 GTFQQSTQEL FIPNITVNNS GSYTCQAHNS DTGLNRTT VT TITVYAEPPK PFITSNNSNP
301 VEDEDAVALT CEPEIQNTTY LWWVNNQSLP VSPRLQLSND NRTLTLTLLSVT RNDVGOPYECG
361 IQNELSVDHS DPVILNVLYG PDDPTISPSY TYRPGVNLS LSCHAASNPP AQYSWLIDGN
421 IQQHTQELFI SNITEKNSGL YTCQANNSAS GHSRTTVKTI TVSAELPKPS ISSNNSKPVE
481 DKDAVAFTCE PEAQNTTYLW WVNGQSLPVS PRLQLSNGNR TLTLFNVTRN DARAYVCGIQ
541 NSVSANRSDP VTLDVLYGPD TPIISPPDSS YLSGANLNL CHSASNPSPO YSWRINGIPO
601 QHTQVLFIAK ITPNNNGTYA CFVSNLATGR NNSIVKSITV SASGT

Figure 11:

1 DCGLPPDVPN AOPALEGRS FPEDTVITYK CEESFVKIPG EKDSVICLKG SQWSDIEEFC
61 NRSCEVPTRL NSASLKQPYI TQNYFPVGT VVEYECRPGYR REPSLSPKLT CLQNLKWSTA
121 VEFCKKKSCP NPGEIRNGQI DVPGGILFGA TISFSCNTGY KLFGSTSSFC LISGSSVQWS
181 DPLPECREIY CPAPPQIDNG IIQGERDHYG YRQSVTYACN KGFTMIGEHS IYCTVNNDG
241 EWSGPPPECR GKSLTSKVPP TVQKPTTVNV PTTEVSPTSQ KTTTKTTTPN AQATRSTPVS
301 RTTKHFHETT PNKSGTTS G TTRLLSGHTC FTLTGLLGTL VTMGLLT